

18100

CORRES CONTROL  
OUTGOING LTR NO

DOE ORDER#

96 R F 03210

DIST	TR	ENC
BENSUSSEN, S J	X	X
BUHL, T R	X	X
CARD, R G	X	X
GILLISON, W R	X	X
HERRING, C L	X	X
HILL, J A	X	X
HUEMAN, T P	X	X
KELL, R E	X	X
LEE, E M	X	X
MANI, V	X	X
MARTINEZ, L A	X	X
McANALLY, J L	X	X
McKAY, R	X	X
McKIBBIN, J G	X	X
O BRIEN, G D	X	X
SANDLIN, N B	X	X
TUOR, N R	X	X
VOORHEIS, G M	X	X
WALLER, C A	X	X
Hedahl, T G	X	X
COO, R N	X	X
WOLF, D H	X	X
STELMAN, M R	X	X
SWANSON, E R	X	X
WELCH, B P	X	X
CORRES CONTROL	X	X
ADMIN RECORD/080		
TRAFFIC		
PATS/T130G		

## CLASSIFICATION

UCNI	
UNCLASSIFIED	
CONFIDENTIAL	
SECRET	

AUTHORIZED CLASSIFIER

SIGNATURE

Karl Sargent  
DATE 5/23/96

IN REPLY TO RFP CC NO

ACTION ITEM STATUS

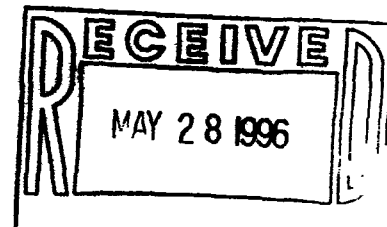
T P RTIAL/OPEN

T CLOSED

TR APPROVALS

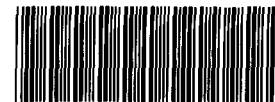
ORIG &amp; TYPIST INITIALS

EAS and



May 23 1996

96-RF-03210

Dero W Sargent  
Special Advisor  
DOE RFFO

000064510

SUMMARY OF DEFENSE NUCLEAR FACILITIES SAFETY BOARD (DNFSB) STAFF  
MEETING MAY 9 1996 MRS-084 96

On May 9 1996 Steven Stokes Bob Warther and Mark Sautman of the DNFSB staff met with representatives of the Rocky Flats Environmental Technology Site (RFETS) to review the status of waste management including drum storage disposal and certification and drum venting and treatment.

The meeting was arranged as a result of concerns which had arisen over the seeming constipation of waste drums in operating buildings, unvented TRU drums, and the impact of the waste situation upon Recommendation 94-1 progress. The meeting topical discussions covered the enclosed agenda. Issues which should receive further attention include the following

The basis for the overall strategy and plans for storage of wastes in various buildings (moving waste into Building 991 after evacuation of the facility a few years ago in response to structural concerns moving waste into clean buildings like 440 which have no filtered exhaust)

Development of authorization basis for increased waste storage Pu limits (BFO for 440: new analysis administrative controls for non RCRA waste aisle spacing and inspections energy sources including forklift controls)

A clear presentation of Kaiser Hill (K H) control over subcontract management in determination of what waste is accepted in their building no acceptance criteria was presented as defined and controlled by K H for material type packaging building limit

A clear expectation of the Staff is that no waste would be generated under Recommendation 94 1 which does not meet a Waste Acceptance Criteria (WAC)

Although new facilities may be more cost effective Rocky Flats Field Office (RFFO) prefers conversion of existing facilities

The Staff's concern for drum storage on loading docks has expanded to drum storage in unfiltered buildings as a potential site-wide vulnerability

Certain topics were discussed which appeared to be received positively include

K H is getting the TRU drum venting back on track after the authorization basis stand down

Drum rejection rates for waste generated have improved dramatically

Waste shipment rates have increased

Kaiser Hill Company L L C

Courier Address Rocky Flats Environmental Technology Site State Hwy 93 and Cactus Rocky Flats CO 80007 303 966 7000  
Mailing Address PO Box 464 Golden Colorado 80402 0464

ADMIN RECORD

SN-A-004302

D W Sargent  
May 23 1996  
96-RF-03210  
Page 2

Enclosure 1 includes the agenda, meeting attendance sheet, and documents provided to the Staff during the meeting. Other documents were requested and will be forwarded by separate transmittal.

If you have any questions regarding this visit, please contact Eric Swanson at extension 7797.

  
Mark R Steelman  
Regulatory Integration

ERS ahb

Orig and 1 cc D W Sargent  
cc Regina Sarter

Enclosure  
As Stated

cc:  
J A Hill  
T G Hedahl  
J L McAnally RMRS  
A P Power RMRS

**ROCKY FLATS ENVIRONMENTAL TECHNOLOGY SITE  
OFFICIAL NOTIFICATION OF VISIT  
V-232-96**

**REVISION 0 5/1/96 2.00 p m**

**Visiting Organization** Defense Nuclear Facilities Safety Board (DNFSB) Staff Steven Stokes  
**Date of Visit** Thursday, May 9, 1996  
**Purpose** Review of drum storage issues, e.g. master drum plan, storage capacity, generation rates, drum venting status (TRU) and waste certification  
**Host** Dero Sargent DOE RFFO x6222  
**Agenda** As follows

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**THURSDAY, MAY 9 1996**

**BUILDING T130A CONFERENCE ROOM 68**

**8:00 TBD** Agenda items include the following  
Drum Storage Capacity  
Disposal and Certification  
Drum Venting and Treatment

**CONTACT** Regina Sarter DOE, x7252 and John Hill DOE, x6310

## DRAFT

### Waste Management meeting agenda

Proposed Time: Thursday, May 9 1996 8:00 a.m. - ?  
Attendees: DNFSB site representatives, Steven Stokes

Note This meeting is not intended to be a formal staff review with overheads. It is intended to be an informal cross-table discussion.

#### Drum Storage Capacity

- 1 For each of the waste types (TRU, TRUM, LLW LLWM, hazardous, residues, and mixed residues), please provide the following information.
  - a. Existing capacity by building (by room if known) and waste type. Capacity should include all permitted and non-permitted areas (rooms, halls, etc.)
  - b. Technical basis for "capacity" (e.g., RCRA spacing, physical space, authorization basis, Curie or gram loading)
  - c. Actual inventory
  - d. Planned movements in the next three months
  - e. Planned capacity changes in the next three months
  - f. Inventory and capacity (by building if known) for next 10 yearsA map showing capacity and actual inventories by building would be helpful if available.
- 2 Which storage areas are scheduled to be eliminated in the next couple of years?
- 3 What plans are there for accommodating secondary waste generation due to 94-1 stabilization activities? What requirements exist for characterization, packaging, and storage for these waste forms? Will these wastes be certified for disposal as part of their generation?
- 4 Summarize current plans, technical requirements, and funding status for new storage facilities or areas.
- 5 How is overall drum storage managed at the site? Who is in charge for the contractor and RFFO? Who determines which drums get moved where and what is the process/procedure to move drums? Who approves drum transfers between buildings and what criteria are used to determine if they can. a) be moved safely and 2) are appropriately stored?
6. Voorheis mentioned a site plan that Gary Potter is working on. Please discuss.
- 7 Which buildings permanently or temporarily store/stage TRU or residue drums in the proximity of loading docks? How long are the drums stored there? How many doors and how long each week are they open? Is there any ventilation and filtration in the area and is it tested? What operations (type) are conducted near drum storage areas? Identify all storage areas that share space with high travel or high activity work areas. How many drums and how close? What type of material is stored? Summarize any restrictions on drum storage or handling in this area.
- 8 What new or modified authorization bases will be required for waste storage over the next couple of years?

#### Disposal and Certification

- 1 Where is waste currently being disposed at? Where is waste disposal currently limited by

**DRAFT**

- volume or temporarily suspended? Summarize any plans for on-site disposal.
- 2 How much waste was disposed and generated last year? How much waste is projected to be generated and disposed this year? Please break down by waste type.
  - 3 What is the rejection rate of waste containers sent by the generators to RMRS for disposal? What percentage need to be repacked? Describe any changes to reduce this.
  - 4 Discuss which waste types could not readily meet the WAC for off-site disposal facilities without undergoing major recharacterization or repackaging. Are there any wastes which cannot be certified? Explain.
  - 5 Has NTS ever returned any waste shipped to it? Explain.
  - 6 Estimates indicate that the WIPP WAC certification rate would have to greatly increase from the current capability if WIPP would open. How is this issue being addressed?
  - 7 How many man-hours and how much money are required to
    - a. Pack a drum
    - b. Move it to another building
    - c. Certify the drum
    - d. Ship and dispose at NTS Envirocare, or (eventually) WIPP
 Break down by waste type if it differs by type

**Drum Venting and Treatment**

- 1 Summarize the number, IDC, and location of unvented TRU drums.
- 2 What precautions are taken when moving unvented drums?
- 3 What is the status on receiving funding to vent these drums?
- 4 For any of the "potentially unstable" material forms (e.g., ones similar to 94-1 residues) are there any special considerations for their storage or handling?
- 5 What plans, if any, are there to reduce the hazards associated with these wastes?

## Attendance Roster

4

# UNVENTED TRU/TRM

IDC		Quantity	Location
001	<i>Solidified Sludge Building 774</i>	1	371
		4	664
		1	776
002	<i>Aqueous Process Sludge</i>	1	664
292	<i>Incinerator Sludge</i>	1	776
300	<i>Graphite Molds</i>	2	371
		30	569
		6	771
301	<i>Classified Graphite Shapes</i>	9	371
		2	771
		1	777
302	<i>Benelex and Plexiglas</i>	1	771
312	<i>Graphite Coarse</i>	1	664
		1	771
320	<i>Heavy Non SS Metal</i>	2	371
		1	771
		1	776
321	<i>Lead</i>	3	569
328	<i>Filters Ful Flo Incinerator</i>	1	776
335	<i>Absolute Drybox Filters Not Acid Contaminated</i>	8	569
		2	664
		1	774
		1	777
		1	707
337	<i>Plastic</i>	1	707
		1	774
339	<i>Leaded Drybox Gloves Not Acid Contaminated</i>	1	371
		1	776
		5	664
340	<i>Sludge from Size Reduction Area</i>	1	664
341	<i>Leaded Drybox Gloves Acid Contaminated</i>	2	371
		1	569
342	<i>Absolute Drybox Filters Acid Contaminated</i>	1	371
		1	664
368	<i>Mg Oxide Crucibles Not Leco</i>	2	371
		3	771
374	<i>Blacktop Concrete Dirt and Sand</i>	1	374
		1	569
		1	774
376	<i>Processed Filter Media</i>	4	569
		1	664

IDC		Quantity	Location
377	Firebrick, Coarse	5 1	371 776
378	Firebrick, Pulverized or Fine	1 1	371 776
391	Unpulverized Sand Slag and Crucible	2	776
393	Sand, Slag and Crucible Heel	32 1	371 569
409	Molten Salt 30% Pulverized	1	569
411	Electrorefining Salt	1	371
414	DOR Salt	2 6	371 776
425	Fluid Bed Ash	3	569
430	Resin Unleached	1	371
431	Resin Leached	18 4 27	569 771 777
438	Insulation	4 1	664 771
440	Glass	1 9	371 664
441	Unleached Raschig Rings	1	569
442	Leached Raschig Rings	3 11 1 3 38 2	776 771 371 569 664 777
443	Raschig Rings Solvent Contaminated	23 1	371 664
444	Ground Glass	4	371
479	Empty Reusable Cans	1 1	371 771
480	Light Metal	2 3 6 1 5 2 4 6	991 776 777 774 771 371 569 664
481	Light Non SS Metal Prepared for Leach	1	771
484	Classified Non NM Non BE Scrap Metal Shapes	6 16	371 771

IDC		Quantity	Location
485	<i>Scrap D 38 Classified Shapes</i>	2	771
		11	777
486	<i>Classified Tooling for Disposal</i>	2	371
		13	771
487	<i>Classified Plastic Shapes</i>	1	371
		7	771
489	<i>Classified Be Scrap Metal Shapes</i>	4	771
490	<i>HEPA Filters Not Acid Contaminated</i>	1	569
		4	664
491	<i>Plenum Pre Filter</i>	4	569
		1	664
		1	776
		1	777
533	<i>Organics</i>	1	774
801	<i>Solidified Organics Building 774</i>	1	371
		61	569
		10	664
		2	774
802	<i>Solidified Lab Waste Building 774</i>	1	569
807	<i>Solidified Bypass Sludge Building 374</i>	36	374
		2	664
821	<i>Combustibles Dry</i>	1	707
		1	569
		1	771
		1	777
822	<i>Combustibles Wet</i>	19	569
		4	664
		2	771
824	<i>Light Metal</i>	1	569
		2	771
825	<i>Plastic</i>	2	569
		4	664
831	<i>Combustibles Dry</i>	1	569
		2	664
832	<i>Combustibles Wet</i>	2	371
		11	569
		1	664
		1	771
833	<i>Plastic</i>	1	371
851	<i>Combustibles Dry</i>	1	374
855	<i>Ground Glass</i>	2	569

# On-Hand Waste Summary

## Volume On-Hand In Cubic Meters\*

Building	Low-Lave	LL Mixed	Transuranic	TRU-Mixed	Residue	RES-Mixed	Haz. Waste	Total Inventory
371	176	8	110	116	192	214	1	817
374	78	285	2	46	0	0	0	411
444	126	0	0	0	0	0	0	126
447	36	0	0	0	0	0	0	36
551 Pad	0	0	0	0	0	0	78	78
561	16	71	0	0	0	0	0	87
569	27	0	95	93	0	0	4	219
664	4 205	44	142	231	0	0	0	4 622
707	104	1	38	2	11	0	20	156
750 Haz	4	130	0	0	0	0	0	154
750 Pad	121	4 306	0	0	0	0	0	4 427
771	103	1	60	4	49	62	0	279
774	19	12	7	9	0	0	0	47
776	187	77	75	62	149	56	0	606
777	39	1	93	0	35	71	0	239
779	13	0	3	0	1	0	0	17
865	42	5	0	0	0	0	0	47
881	122	2	0	0	0	0	1	125
883	136	0	0	0	0	0	0	136
884	33	62	0	0	0	0	8	103
904A	30	242	0	0	0	0	0	272
904B	54	10 068	0	0	0	0	3	10 125
906	1	1 944	0	0	0	0	0	1 945
964	0	406	0	0	0	0	0	406
991	28	0	27	0	0	0	0	55
CYard	5	9	0	0	0	0	92	106
Other	415	37	2	0	0	0	4	458
<b>TOTAL</b>	<b>6,120</b>	<b>17 711</b>	<b>654</b>	<b>563</b>	<b>437</b>	<b>403</b>	<b>211</b>	<b>26 099</b>

Data as of 4/4/96

## WASTE GENERATION AND DISPOSAL

	FY95		1996		Projected Superfund	Projected TSD
	(a) Actual	(b) Projected	Projected Superfund	Projected TSD		
Low Level	670 m <sup>3</sup>	423 m <sup>3</sup>	680 m <sup>3</sup>	22 m <sup>3</sup>	666 m <sup>3</sup>	TBD
Low Level Mixed	181.4 m <sup>3</sup>	315 m <sup>3</sup>	180 m <sup>3</sup>	725 m <sup>3</sup>	176 m <sup>3</sup>	TBD
Transuranic	138 m <sup>3</sup>	0	18 m <sup>3</sup>	0	108 m <sup>3</sup>	0
Transuranic Mixed	377 m <sup>3</sup>	0	0	0	90 m <sup>3</sup>	0

Projected waste generation includes Decontamination and Decommissioning Remediation Residue Processing and Routine Operations

11/11